# WISILICA

## **Catron Al**

Catron AI is a switch interface which may be connected to 4-toggle switches or push-button switches and a dimmer switch, for control of light devices/groups/scenes/animations. This compact device also has a built-in Bluetooth Module which enables it to communicate with the lighting network wirelessly.



www.wisilica.com



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	Features



#### 1. Features

- Connect any 4-toggle switch or push-button switch and a dimmer
- Control ON/OFF and intensity of luminaires
- BLE5.2 based non-flooding intelligent communication
- Compact form factor for easy and clean integration within a junction box
- Provision for custom configuration of switches using LUMOS Controls Mobile App

## 2. Specifications

Electrical	Min.	Тур.	Max.	Unit	Remarks
Input Voltage	90		277	Vac	Rated Input voltage
Input Current			10	mA	@ 230V
Power Consumption			2	W	Active Power
Input Frequency	50	_	60	Hz	
Inrush Current		4		А	
Surge Transient Protection			4	kV	@Line to Line: Bi-Wave
Stand By Consumption			9	mA	

Output	Min.	Тур.	Max.	Unit	Remarks	
Switch Input Voltage			3.3	V	Applicable for toggle/push-button switches	
Switch Input Current				mA		
Dimmer Input Voltage		0-10V				
Dimmer Input Current				mA	Applicable for slider/rotary dimmer switches	
Dimming Range	0		100	%		

Bluetooth	Min.	Тур.	Max.	Unit	Remarks
Frequency Range	2400		2483	MHz	
TX Power			8	dBm	Conductive



Catron	AI
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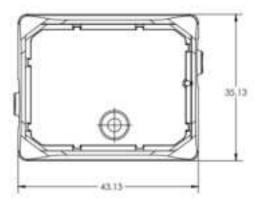
RX sensitivity	-92	dBm	

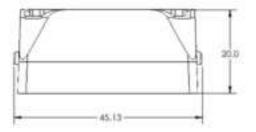
Environmental	Min.	Тур.	Max.	Unit	Remarks
Ambient Temperature	-20		50	₅C	
Relative Humidity	20		85	%	

Mechanical	Min.	Тур.	Max.	Unit	Remarks
Dimensions		43 x 35 x 20		mm	L x W x H
Dimensions		1.7 x 1.4 x 0.8		inch	L x W x H
Net Weight		30.0		g	In gram
Net Weight		1.06		OZ	In ounce

## 3. Device Dimensions

Catron AI Top View: 43mm x 35mm x 20mm (L x W x H). Case Material: White-coloured V0 PC









## 4. Wire Description



SI.NO	NAME	COLOR	GAUGE	RATING	DESCRIPTION
1	Line	Black	20 AWG	600V	100-277VAC
2	Neutral	White	20 AWG	600V	Common neutral
3	Switch Input-1	Orange	28 AWG	300V	3.3V Switch input
4	Switch Input-2	Yellow	28 AWG	300V	3.3V Switch input
5	Switch Input-3	Green	28 AWG	300V	3.3V Switch input
6	Switch Input-4	Red	28 AWG	300V	3.3V Switch input
7	0-10V input	Purple	28 AWG	300V	0-10V dimming input
8	Common Ground	Pink	28 AWG	300V	Common ground





## 5. Antenna Information

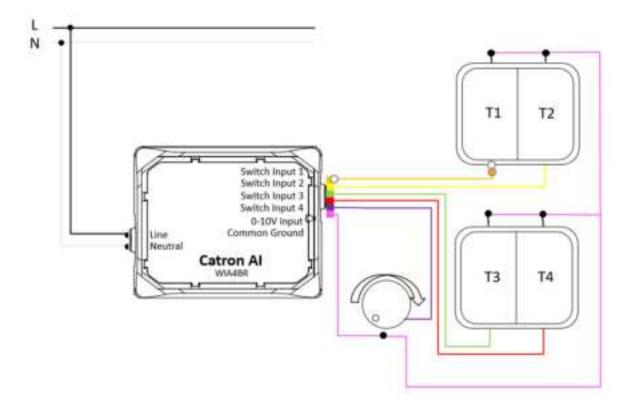
#### 150mm wire antenna



Antenna Properties						
Frequency range	2.4 GHz-2.5GHz					
Impedance	50 $\Omega$ Nominal					
VSWR	1.92:1 Max					
Return loss	-10 dB Max					
Gain(peak)	1.5 dBi					
Cable loss	0.3 dBi Max					
Polarization	Linear					



#### 6. Wiring Diagram



## 7. Warning

- 1. To prevent the device from any defect, please handle and store it with care.
- Do not drop or give shock.
- Do not store in very humid location or at extreme temperature.
- Do not open or disassemble the product.
- 2. Static electricity or surge voltage may damage the components inside device, as such please observe proper antielectrostatic working process.
- People handing the device should be well grounded (e.g. using ESD wrist band) and wear antistatic working clothes and gloves.
- All related devices and instruments in the production line should be well grounded (e.g. working table, measuring equipment, assembly jigs).
- 3. Observe the correct polarity of output terminal.
- 4. Avoid input voltage exceeds the maximum rating, which will cause damage to the circuit and result in malfunction.
- 5. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 6. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- 7. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
- 8. To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instruction.

## 8. Ordering Information

Product Code	Product Name	Product Description	Communication	Voltage Rating	Output Channels
WIA4BR	Catron AI	Wireless switch interface device	BLE5.2	100-277V AC	3.3V switch input, 0-10V dimming

## 9. Compatible Devices

- iOS iPhone & iPad (version 9.0 and above)
- Android- almost all device (version 6.0 and above)

Visit the link for commissioning and control information

Link - https://wisilica.com/help/wca2csd4/PreconfigurationWCA.htm

Download our mobile application in the following link

- Search Lumos Controls App on the App Store / Play Store for iOS / Android device or use the below link
- Android: <a href="https://play.google.com/store/apps/details?id=com.wisilica.Home&hl=en\_US">https://play.google.com/store/apps/details?id=com.wisilica.Home&hl=en\_US</a>
- **iOS**: <u>Lumos Controls on the App Store (apple.com)</u>









CONNECTING THINGS TO LIFE

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Version 1.0





### **FCC Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- •Reorient or relocate the receiving antenna.
- •Increase the separation between the equipment and receiver.

•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

•Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### **RF Exposure Information**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.